

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



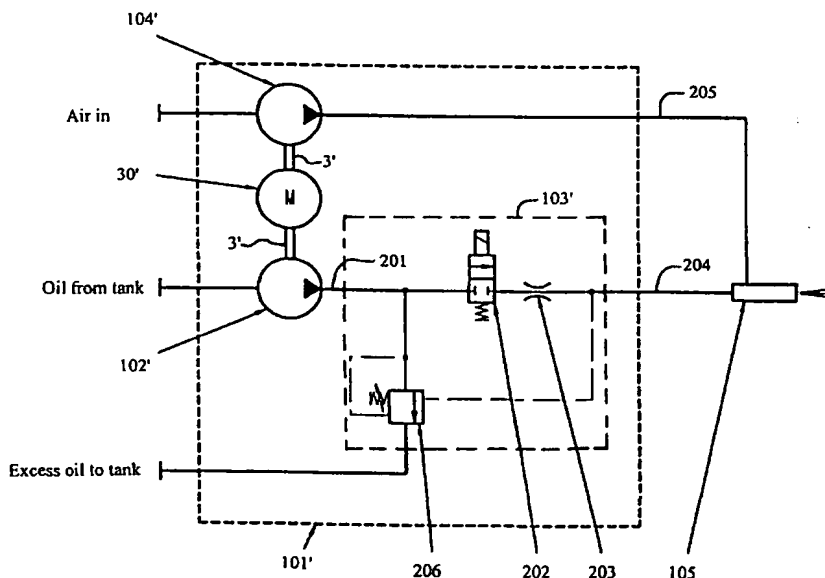
(43) International Publication Date
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number
WO 2004/040192 A1

- (51) International Patent Classification⁷: **F23K 5/04** (DK). KJELDAL, Bent [DK/DK]; Margretheparken 93, DK-6400 Soenderborg (DK).
- (21) International Application Number: **PCT/DK2003/000733** (74) Common Representative: **DANFOSS A/S**; Patent Department, DK-6430 Nordborg (DK).
- (22) International Filing Date: 30 October 2003 (30.10.2003) (81) Designated States (*national*): AM, AT, AU, BA, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HR, HU, IL, IN, IS, JP, KR, KZ, LT, LU, LV, MD, MK, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SK, TR, UA, US, UZ, VN, YU, ZA.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PA 2002 01684 1 November 2002 (01.11.2002) DK (84) Designated States (*regional*): Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).
- (71) Applicant (*for all designated States except US*): **DANFOSS A/S** [DK/DK]; DK-6400 Nordborg (DK).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **KLAUSEN, Jørn, Holger** [DK/DK]; Kirsebærhaven 41, DK-6430 Nordborg
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: A LIQUID FUEL SUPPLY UNIT FOR A LIQUID FUEL BURNER AND A LIQUID FUEL BURNER SYSTEM



(57) Abstract: A liquid fuel burner system and a liquid fuel supply unit (101) for the liquid fuel burner (106) of the system are disclosed. The supply unit (101) comprises a liquid fuel feed pump (102), a compressor (104) and preferably also a motor (30) mounted on a common drive shaft (3). The system further comprises a modulatable liquid fuel metering device (103). The liquid fuel feed pump (102) is connectable to a liquid fuel conduit from a liquid fuel source, such as an oil tank. An outlet of the feed pump (102) is connected to an inlet of the liquid fuel metering device (103), which in turn is connectable to an atomizing nozzle (105) of the liquid fuel burner (106).